



The Daedalean

Semper Discens

*Monthly Aerospace Education Newsletter of the Connecticut
Wing of the Civil Air Patrol*

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CALENDAR

For Future Planning

21 AUG-CTWG Rocket Contest
10 OCT-CTWG Olde Rhinebeck Field Trip
16-24 OCT-National Staff College
22-24 OCT-CTWG Conference
01-04 SEP-CAP National Conference

2010 COMMANDER'S CUP WING ROCKETRY CONTEST

21 August, 2010
Tentative Time 0900

The following Squadrons have indicated that they plan to participate: Royal Charter, the 169th, Stratford Eagles, and Thames River.

We need judges to evaluate the quality of construction of the rockets and the heights achieved during Flight Two Altitude competition. I ask each Squadron to assign on person to act as part of this team. Detailed instructions will be give on the day of the competition.

A sample score sheet is attached to this issue of *The Daedalean*.

Rules Clarification and Amendments

1. Spin stabilization is allowed.
2. Flight Three-Free Form Competition promotes load bearing rockets, historical rockets, and multistage rockets, all of which are applicable to the CAP Rocketry Badge.

Here are the rules:

Flight 1: Tyro Cadets will build an Estes Alpha or Quest Astra 1 decorated in a Civil Air Patrol Theme. The entry will be judged on construction and finish. Each first year Cadet in a Squadron may enter one rocket. A Tyro Cadet is a Cadet who has never participated in the Wing contest. (CAVEAT-The Alpha is the model with balsa fins. Do not order the Alpha III with plastic fins for this contest.)

Flight 2: Altitude Competition-Build a rocket, kit or scratch, which will use a standard engine which will be supplied by the Wing. This will be the same for all and will be A8-3 engine with the following dimensions (2.75 in x 0.69 in). Your entry must accept this size engine. Judging will be based on maximum altitude reached. Each Squadron may enter two rockets for one flight each and the best of the two flights will be counted.

Flight 3: Free Form Competition-Each Squadron may enter two scratch built rockets powered by a D engine. Judging will be based on construction, finish, and flight.

Finish points will be based on sanding, contouring of fins, joins of fins to fuselage, and alignment of fins. Finish will be based upon quality of paint application, neatness of decal or marking application, and appropriate markings and colors.

Altitude will be judged on the basis of a number of measurements, the high and low of which will be discarded.

Flight will be judged on a vertical climb, and proper deployment of recovery device.

Squadrons are responsible for purchasing rockets, engines, igniters, and wadding except for Flight 2, altitude rockets, in which case, the Wing will supply the engines. CATO will supply launch services.

If you have any questions, please contact me. Maj Stephen Rocketto, *Raketekampfdirektor* at srocketto@aquilasys.com.

AEROSPACE EDUCATION NOTIFICATIONS

The latest AE Newsbrief from CAP NHQ may be viewed at:
http://members.gocivilairpatrol.com/aerospace_education/stay_informed/ae_newsbriefs.cfm

CADET GLIDER ORIENTATION FLIGHTS AND GLIDER ACADEMY

The Springfield Composite Squadron in Vermont is offering two opportunities for Cadets to participate in glider and powered flight.

The first is a weekend program offering glider orientation flights and is held on every second and fourth Friday to Sunday weekend subject to special events and weather. Cadet Orientation Rides 1-5 are offered. Total cost including room, board, and fees is \$35. Cadets may attend as a Squadron event or individually, space permitting.

Cadets will review the "Wing Walkers" on-line course on Friday night and engage in a full program of flight and social activities on Saturday and Sunday.

OLDE RHINEBECK AERODROME VISIT

A Wing visit to the Olde Rhinebeck Aerodrome is scheduled for Sunday, the 10th of October. Olde Rhinebeck is a veritable flying museum with a wide range of aircraft dating from as early as 1908 and continuing into the early 1930s. The show for Sunday is based on World War I dogfights. In addition, their collection of rare aircraft and artifacts will be on display in a number of buildings on site.

Capt Art Dammers of the 103rd is Project Officer for this field trip. Aerospace Education Officers should start informing their Cadets and Senior members and initiate plans for attending so that adequate transportation may be arranged. Cost for Cadets will be minimal, around \$5 to cover admission and lunch.

AEROSPACE HISTORY

16 AUG, 1960-Capt. Joseph William Kittinger II sets records for the highest parachute jump and the longest delayed jump when he departed from the balloon Excelsior III at an altitude of 102,800 feet. In the thin upper atmosphere, his vertical speed exceeded 600 mph and there is some speculation that during his free fall, he exceeded the speed of sound which is somewhat lower in less dense air.

17 AUG, 1943-The Eighth Air Force sends 376 bombers to attack the Messerschmitt works at Regensburg and the ball bearing industry at Schweinfurt. Weather conditions cause a delay in launching the Regensburg force and the *Luftwaffe* is able to concentrate its attacks on the force bombing Schweinfurt. Approximately one third of the force is shot down or damaged beyond repair.

18/19 AUG, 1960-A C-119 makes the first aerial recovery of a returning artificial satellite payload when it snags the Discoverer 14 capsule. The Discoverer Project was a cover for the Corona Project, a military reconnaissance program using what became known as the "Keyhole" satellites to photograph denied areas.



Fairchild C-119J Packet at the USAF Museum. This particular craft is the one which accomplished the first aerial recovery of a re-entering satellite.



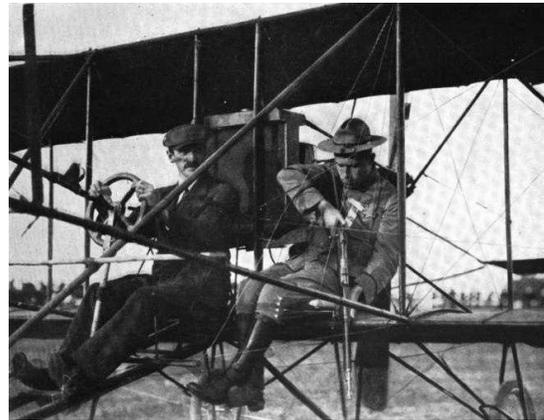
The parachute equipped satellite was located by radio direction finding techniques. The special VHF Yagis served as the antenna system.

The aircraft bears a mission mark depicting the parachute attached satellite.



19 AUG, 1871-Orville Wright is born.

20 AUG, 1910-Glenn Curtiss pilots a Curtiss biplane accompanied by Lt Jacob Earl Fickel. Fickel, armed with a Springfield 1903 rifle, fires two shots at a ground target from a 100 foot altitude. This is the first recorded attempt of using a firearm from an aircraft. Fickel rises to the rank of Major General and after serving in two wars, retires in 1946.



Curtiss and Fickel pose for the photographers.

SCENES CTWG ENCAMPMENT-2010



Sgt Gerhardt drills Golf Flight

Practicing boarding a life raft at Survival Systems



The Cadet Wing Passes in Review